

[illegible]

FIGURE 1

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EXENDIN-4

[illegible][illegible]

FIGURE 2

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GLP-1 (GLP-1(7-36)NH₂)

His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
 5 10 15
Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg-NH₂
 20 25 30

FIGURE 3

Amino Acid	Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	
Compound 1	Ala	Gly	Glu	Gly	Thr		Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn	NH2												
Compound 2	His	Gly	Ala	Gly	Thr		Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn	NH2												
Compound 3	His	Gly	Glu	Ala	Thr		Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn	NH2												
Compound 4	His	Gly	Gly	Ala	Thr		Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn	NH2												
Compound 5	Ala	Gly	Glu	Gly	Thr		Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 6	His	Gly	Ala	Gly	Thr		Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 7	His	Gly	Glu	Gly	Thr		Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 8	His	Gly	Glu	Gly	Thr		Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 9	His	Gly	Glu	Gly	Thr		Phe	Thr	Ser	Asp	Ala	Ser	Lys	Gln	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 10	Ala	Ala	Glu	Gly	Thr		Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 11	Ala	Ala	Glu	Gly	Thr		Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 12	Ala	Gly	Asp	Gly	Thr		Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 13	Ala	Gly	Asp	Gly	Thr		Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 14	Ala	Gly	Asp	Gly	Ala		Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 15	Ala	Gly	Asp	Gly	Ala		Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 16	Ala	Gly	Asp	Gly	Thr		Nala	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 17	Ala	Gly	Asp	Gly	Thr		Nala	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 18	Ala	Gly	Asp	Gly	Thr		Phe	Ser	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn	NH2												
Compound 19	Ala	Gly	Asp	Gly	Thr		Phe	Ser	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 20	Ala	Gly	Asp	Gly	Thr		Phe	Thr	Ala	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 21	Ala	Gly	Asp	Gly	Thr		Phe	Thr	Ala	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 22	Ala	Gly	Asp	Gly	Thr		Phe	Thr	Ala	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 23	Ala	Gly	Asp	Gly	Thr		Phe	Thr	Ser	Ala	Leu	Ser	Lys	Gln	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 24	Ala	Gly	Asp	Gly	Thr		Phe	Thr	Ser	Glu	Leu	Ser	Lys	Gln	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 25	Ala	Gly	Asp	Gly	Thr		Phe	Thr	Ser	Glu	Leu	Ser	Lys	Gln	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 26	Ala	Gly	Asp	Gly	Thr		Phe	Thr	Ser	Asp	Ala	Ser	Lys	Gln	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 27	Ala	Gly	Asp	Gly	Thr		Phe	Thr	Ser	Asp	Ala	Ser	Lys	Gln	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 28	Ala	Gly	Asp	Gly	Thr		Phe	Thr	Ser	Asp	Pgly	Ser	Lys	Gln	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 29	Ala	Gly	Asp	Gly	Thr		Phe	Thr	Ser	Asp	Pgly	Ser	Lys	Gln	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 30	Ala	Gly	Asp	Gly	Thr		Phe	Thr	Ser	Asp	Ala	Lys	Gln	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2													
Compound 31	Ala	Gly	Asp	Gly	Thr		Phe	Thr	Ser	Asp	Leu	Ala	Lys	Gln	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 32	Ala	Gly	Asp	Gly	Thr		Phe	Thr	Ser	Asp	Leu	Ser	Ala	Gln	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 33	Ala	Gly	Asp	Gly	Thr		Phe	Thr	Ser	Asp	Leu	Ser	Ala	Gln	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 34	Ala	Gly	Asp	Gly	Thr		Phe	Thr	Ser	Asp	Leu	Ser	Lys	Ala	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 35	Ala	Gly	Asp	Gly	Thr		Phe	Thr	Ser	Asp	Leu	Ser	Lys	Ala	Met	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												

Amino Acid	Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39		
Compound 36	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2													
Compound 37	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn	NH2													
Compound 38	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	pGly	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 39	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	pGly	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn	NH2												
Compound 40	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 41	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 42	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 43	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 44	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 45	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn	NH2												
Compound 46	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 47	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn	NH2												
Compound 48	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn	NH2												
Compound 49	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 50	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn	NH2												
Compound 51	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Ala	Phe	Ile	Glu	Phe	Leu	Lys	Asn	NH2												
Compound 52	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Nala	Ile	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 53	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Nala	Ile	Glu	Phe	Leu	Lys	Asn	NH2												
Compound 54	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Val	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 55	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Val	Glu	Phe	Leu	Lys	Asn	NH2												
Compound 56	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Val	Glu	Phe	Leu	Lys	Asn	NH2												
Compound 57	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	IGly	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 58	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	IGly	Glu	Trp	Leu	Lys	Asn	NH2												
Compound 59	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	IGly	Glu	Phe	Leu	Lys	Asn	NH2												
Compound 60	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Asp	Phe	Leu	Lys	Asn	NH2												
Compound 61	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Asp	Phe	Leu	Lys	Asn	NH2												
Compound 62	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Asp	Phe	Leu	Lys	Asn	NH2												
Compound 63	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Ala	Leu	Lys	Asn	NH2												
Compound 64	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Ala	Lys	Asn	NH2												
Compound 65	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Ala	Asn	NH2												
Compound 66	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Ala	Asn	NH2												
Compound 67	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Ala	Asn	NH2												
Compound 68	Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Ala	Lys	Asn	NH2												
Compound 69	His	Gly	Ala	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Ala	Asn	NH2												
Compound 70	His	Gly	Ala	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Ala	Asn	NH2												
Compound 71	His	Gly	Gly	Gly	Thr	Phe	Thr	Ser	Ala	Leu	Ser	Lys	Gln	Ala	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Ala	Asn	NH2												
			</																																							

Figure 4

Figure 4

Amino Acid Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	
Compound 72	Ala	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Ala	Ser	Lys	Gln	Leu	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn	Gly	Gly	Pro	Ser	Ser	Gly	Ala	Pro				
Compound 73	Ala	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Phe	Leu	Lys	Asn	Gly	Gly	Pro	Ser	Ser	Gly	Ala	Pro			
Compound 74	His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Phe	Leu	Lys	Asn	Gly	Gly	Pro	Ser	Ser	Gly	Ala	NH2			
Compound 75	His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Phe	Leu	Lys	Asn	Gly	Gly	Pro	Ser	Ser	Gly	NH2				
Compound 76	His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Phe	Leu	Lys	Asn	Gly	Gly	Pro	Ser	Ser	Gly	NH2				
Compound 77	Ala	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Phe	Leu	Lys	Asn	Gly	Gly	Pro	Ser	Ser	Gly	NH2				
Compound 78	His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn	Gly	Gly	Pro	Ser	Ser	Gly	NH2					
Compound 79	His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Phe	Leu	Lys	Asn	Gly	Gly	Pro	Ser	Ser	Gly	NH2				
Compound 80	His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Ala	Ser	Ser	Lys	Gln	Leu	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Phe	Leu	Lys	Asn	Gly	Gly	Pro	Ser	Ser	Gly	NH2				
Compound 81	Ala	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Ala	Ser	Ser	Lys	Gln	Leu	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn	Gly	Gly	Gly	NH2								
Compound 82	His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn	Gly	Gly	NH2									
Compound 83	His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Phe	Leu	Lys	Asn	Gly	Gly	Pro	Ser	Ser	Gly	Ala	Pro	NH2		
Compound 84	His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Ala	Leu	Ser	Lys	Gln	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Phe	Leu	Lys	Asn	Gly	Gly	Pro	Ser	Ser	Gly	Ala	Pro	NH2		
Compound 85	Ala	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Phe	Leu	Lys	Asn	Gly	Gly	NH2								
Compound 86	His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Phe	Leu	Lys	Asn	Gly	Gly	Pro	Ser	Ser	Gly	Ala	NH2			
Compound 87	His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Phe	Leu	Lys	Asn	Gly	Gly	Pro	Ser	Ser	Gly	Ala	NH2			
Compound 88	Ala	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Phe	Leu	Lys	Asn	Gly	Gly	Pro	Ser	Ser	Gly	Ala	Pro	Pro	Ser	NH2
Compound 89	Ala	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn	Gly	Gly	Pro	Ser	Ser	Gly	Ala	Pro	Pro	Pro	Ser	NH2

**Glucose lowering effect in db/db mice at
1 hr time point**

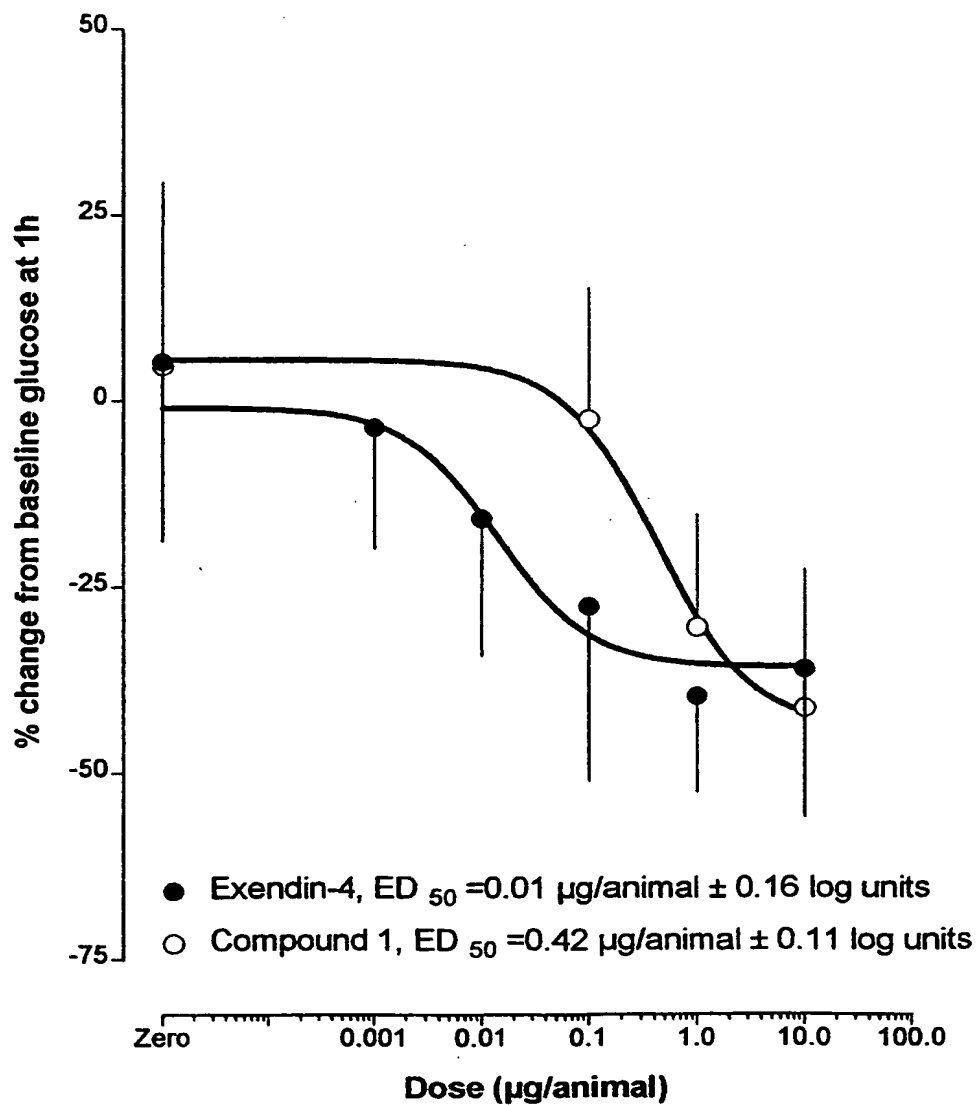


Figure 5

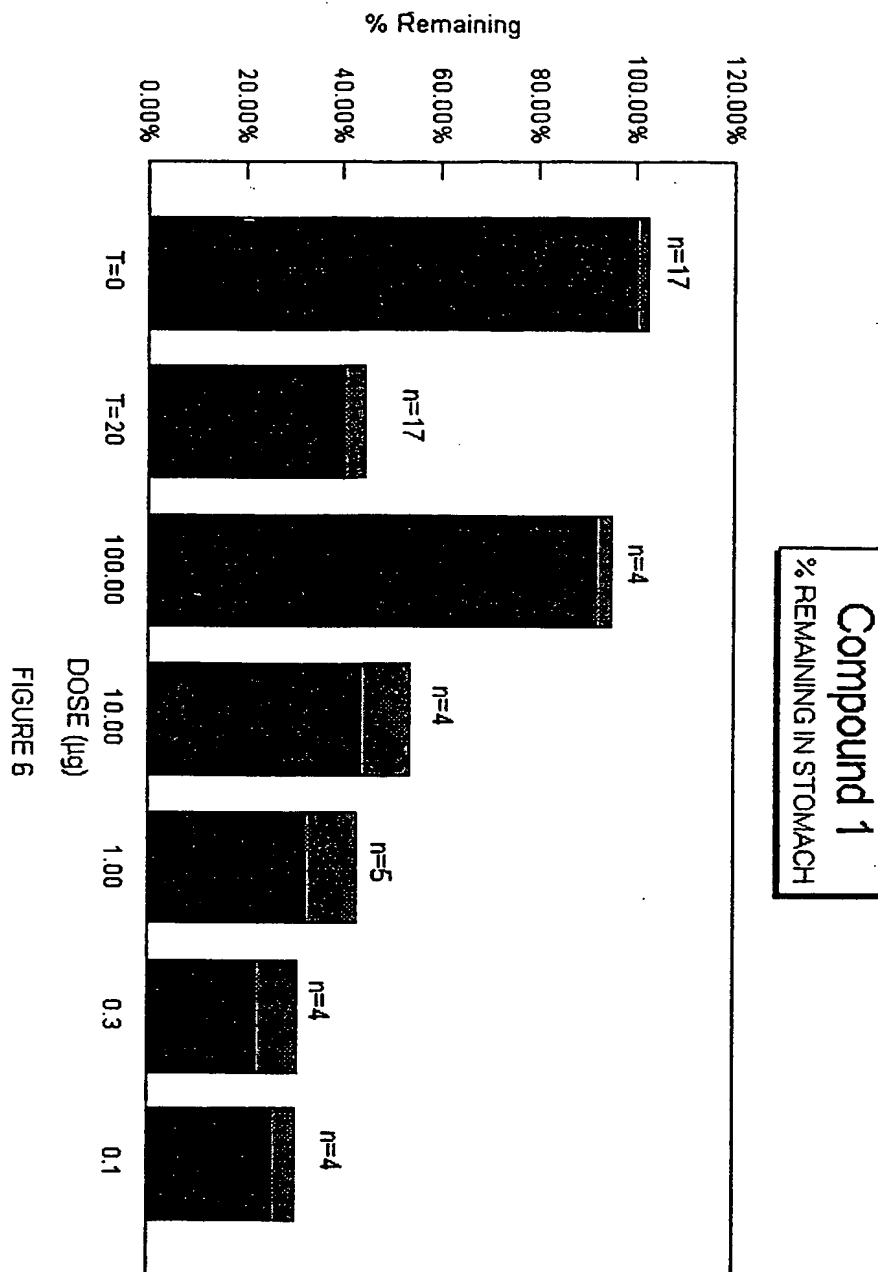


FIGURE 6

FIGURE 7

Cmp
No.

- 90 4-Imidazolypropionyl-Gly Glu Gly Thr Phe Thr Ser Ala Leu
Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp
Leu Lys-NH^eoctanoyl Asn-NH₂ [SEQ. ID. NO. 95]
- 91 4-Imidazolypropionyl-Gly Glu Gly Thr Phe Thr Ser Ala Leu
Ser Lys Gln Leu Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Phe
Leu Lys-NH^eoctanoyl Asn-NH₂ [SEQ. ID. NO. 96]
- 92 4-Imidazolypropionyl-Gly Glu Gly Thr Phe Thr Ser Ala Leu
Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp
Leu Lys-NH^eoctanoyl Asn Gly Gly-NH₂ [SEQ. ID. NO. 97]
- 93 4-Imidazolypropionyl-Gly Glu Gly Thr Phe Thr Ser Ala Leu
Ser Lys Gln Leu Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Phe
Leu Lys-NH^eoctanoyl Asn Gly Gly-NH₂ [SEQ. ID. NO. 98]
- 94 4-Imidazolypropionyl-Gly Glu Gly Thr Phe Thr Ser Ala Leu
Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp
Leu Asn Lys-NH^eoctanoyl-NH₂ [SEQ. ID. NO. 99]
- 95 4-Imidazolypropionyl-Gly Glu Gly Thr Phe Thr Ser Ala Leu
Ser Lys Gln Leu Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Phe
Leu Asn Lys-NH^eoctanoyl-NH₂ [SEQ. ID. NO. 100]

- 96 4-Imidazolypropionyl-Gly Glu Gly Thr Phe Thr Ser Ala Leu
Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp
Leu Asn Lys-NH^eoctanoyl Gly Gly-NH₂ [SEQ. ID. NO. 101]
- 97 4-Imidazolypropionyl-Gly Glu Gly Thr Phe Thr Ser Ala Leu
Ser Lys Gln Leu Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Phe
Leu Asn Lys-NH^eoctanoyl Gly Gly-NH₂ [SEQ. ID. NO. 102]
- 98 Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu
Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys-NH^eoctanoyl
Asn-NH₂ [SEQ. ID. NO. 103]
- 99 Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu
Glu Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys-NH^eoctanoyl
Asn-NH₂ [SEQ. ID. NO. 104]
- 100 Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu
Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys-NH^eoctanoyl
Asn Gly Gly-NH₂ [SEQ. ID. NO. 105]
- 101 Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu
Glu Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys-NH^eoctanoyl
Asn Gly Gly-NH₂ [SEQ. ID. NO. 106]
- 102 Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu
Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Asn Lys-
NH^eoctanoyl-NH₂ [SEQ. ID. NO. 107]

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103 Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu
Glu Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Asn Lys-
NH^ooctanoyl-NH₂ [SEQ. ID. NO. 108]

104 Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu
Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Asn Lys-
NH^ooctanoyl Gly Gly-NH₂ [SEQ. ID. NO. 109]

105 Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu
Glu Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Asn Lys-
NH^ooctanoyl Gly Gly-NH₂ [SEQ. ID. NO. 110]